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| Application No.  | Applicant(s)    |
|------------------|-----------------|
| 09/837,936       | LOGUINOV ET AL. |
| Examiner         | Art Unit        |
| Tam (Jenny) Phan | 2144            |

| J | Rejected | -  | - | (Through numeral)<br>Cancelled |
|---|----------|----|---|--------------------------------|
|   | Allowed  | [. | ÷ | Restricted                     |

| N | Non-Elected  | A |  |
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| - | Interference | o |  |

| A | Appeal   |
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| 0 | Objected |

| Cla  | aim      | Date           |              |  |                |  |  | Date Claim Date                                  |              |                 |  |            |              |             |                        |          |           | Claim Date |          |           |          |          |          |  |          |          |          |          |           |          |          |          |
|--|----------|----------------|--------------|--|----------------|--|--|--|--------------|-----------------|--|------------|--------------|-------------|------------------------|----------|-----------|------------|----------|-----------|----------|----------|----------|--|----------|----------|----------|----------|-----------|----------|----------|----------|
|  |          | -              |              |  |                |  |  |  |              |                 | $\dashv$                                       | Ciaim Date |              |             |                        |          |           |            |          |           | ı        | $\dashv$ |          |  |          |          |          |          |           |          |          |          |
| Final  | Original | 7/20/05        |              |  |                |  |  |  |              |                 | Final  | Original   |              |             |                        |          |           |            |          |           | :        | Final    | Original |  |          |          |          |          |           |          |          |          |
|  | 1        | V              |              | _  | -              | †  | H  |  |              | Н               |  | 51         | $\vdash$     |             |                        |          |           | $\neg$     | $\neg$   |           |          |          | 101      | $\vdash$   | $\dashv$ | _        | $\dashv$ |          |           |          | 1        | $\dashv$ |
| _  | 2        | 1              |              |  |                | l  | $\vdash$   | <del>                                     </del> | -            | H               | -  | 52         | H            |             | -                      | -        |           | _          | $\dashv$ | $\dashv$  | $\dashv$ | $\vdash$ | 102      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -         | -        | ᅱ        | $\dashv$ |
|  | 3        | 1              |              |  |                | H  |  |  |              | H               | <del>                                   </del> | 53         |              |             |                        | -1       | -         | _          | -        |           | $\dashv$ |          | 103      | H  | $\dashv$ | $\dashv$ | $\dashv$ | 一        | $\dashv$  | $\dashv$ | $\dashv$ | ㅓ        |
|  | 4        | V              |              |  |                |  |  |  | $\vdash$     | Н               |  | 54         |              |             | -                      | $\dashv$ |           | _          | $\dashv$ | _         | $\dashv$ |          | 104      | H  | $\dashv$ | $\dashv$ | 7        | $\neg$   |           | $\neg$   | _        | ᅱ        |
|  | 5        | 1              |              | $\vdash$   |                | -  |  | $\vdash$   |              | $\vdash$        | -  | 55         |              |             | -                      | $\dashv$ |           |            |          | -         | $\dashv$ |          | 105      |  | $\dashv$ | $\dashv$ | -        | $\neg$   |           | -        | -        | ⊣        |
| <u> </u>   | 6        | 1              | -            | -  | -              | ╁  | <del>                                     </del> |  | ┢            | Н               | -  | 56         |              |             | $\dashv$               | -        |           |            |          |           | -        | -        | 106      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |           | $\dashv$ | $\dashv$ | 一        |
|  | 7        | 1              |              |  |                | $\vdash$   | $\vdash$   | H  | ┢            | H               | <u> </u>                                       | 57         |              | H           |                        |          |           | $\dashv$   |          | $\dashv$  | $\dashv$ | <u> </u> | 107      | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | $\dashv$ |
|  | 8        | 1              |              |  |                | -  | $\vdash$   |  |              | -               |  | 58         | -            |             | $\dashv$               | $\dashv$ |           | _          | -        | -         | $\dashv$ |          | 108      | $\vdash$   | $\dashv$ | -+       |          |          |           | -        | -        | ᅱ        |
|  | 9        | 1              | -            | $\vdash$   | <u> </u>       | ┢  | $\vdash$   | $\vdash$   | $\vdash$     | H               | ļ  | 59         | $\vdash$     |             |                        | $\dashv$ | $\dashv$  |            |          | $\dashv$  | $\dashv$ | -        | 109      | $\vdash$   | +        | $\dashv$ | -        | $\dashv$ |           | 一        | $\dashv$ | $\dashv$ |
|  | 10       | 1              |              |  | _              | 1  | -  |  |              |                 | <u> </u>                                       | 60         | -            | -           | $\dashv$               | $\dashv$ |           |            |          | $\dashv$  | $\dashv$ |          | 110      | $\vdash$   | $\dashv$ | +        | -        | -        | -         |          |          |          |
| -  | 11       | H              | ┢            |  | -              | ├  | -  |  | _            |                 |  | 61         | $\vdash$     | $\vdash$    | $\dashv$               | $\dashv$ | $\dashv$  | $\neg$     | $\dashv$ | $\dashv$  | $\dashv$ | <u> </u> | 111      | $\vdash$   | -        |          |          |          |           | $\dashv$ | -        |          |
| -  | 12       | 1              |              | $\vdash$   |                | 1  | $\vdash$   |  |              | $\vdash$        | -  | 62         | -            | $\vdash$    | $\vdash$               | $\dashv$ | $\dashv$  | _          | $\dashv$ |           | $\dashv$ |          | 112      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |          | $\dashv$ |
| $\vdash$   | 13       | i              | $\vdash$     | $\vdash$   | $\vdash$       | 1  | <del> </del>                                     | <del> </del>                                     |              |                 |  | 63         | $\vdash$     | H           | $\vdash$               | $\vdash$ | $\vdash$  |            | -        | $\dashv$  | $\dashv$ |          | 113      | $\vdash$   | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\vdash$  |          |          | $\dashv$ |
|  | 14       | 1              | $\vdash$     |  | -              | -  | <del> </del>                                     | 1  | 一            | $\vdash$        |  | 64         | $\vdash$     |             | $\vdash$               | $\vdash$ | $\vdash$  |            | $\dashv$ | $\vdash$  | $\dashv$ |          | 114      | $\vdash$   | +        | $\dashv$ |          | -        | -         |          | $\dashv$ | $\dashv$ |
| $\vdash$   | 15       | 1              | ┢            |  | -              | $\vdash$   |  | ┢  | -            | $\vdash$        |  | 65         |              |             | $\dashv$               |          | $\dashv$  | -          | $\dashv$ |           | $\dashv$ | _        | 115      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | -        |           | $\dashv$ | $\dashv$ | $\dashv$ |
| -  | 16       | Ì              |              |  | H              | $\vdash$   |  | ┢  | ┝╌           | $\vdash$        | <del> </del>                                   | 66         |              |             | -                      |          | $\dashv$  | $\neg$     |          |           | $\dashv$ | -        | 116      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | $\dashv$ |
| <del>                                     </del> | 17       | Ì              |              |  |                | $\vdash$   |  | ├-   |              | $\vdash$        | <del> </del>                                   | 67         |              |             | -                      |          | $\dashv$  | $\dashv$   | $\dashv$ | $\dashv$  | $\dashv$ | -        | 117      |  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | -        | ᅥ        |
|  | 18       | Ì              | ├            | -  |                | ┼─   | -  | <u> </u>   | $\vdash$     | H               | -  | 68         | ┢            |             |                        | $\dashv$ | $\dashv$  | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 118      | H  | $\dashv$ |          | $\dashv$ | -        |           |          | $\dashv$ | $\dashv$ |
|  | 19       | Ì              | -            | -  |                | ├  | ├─   | <del> </del>                                     | -            | $\vdash$        | -  | 69         |              |             |                        |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 119      |  | $\dashv$ |          | -        | -        | $\vdash$  | -        | -        | -        |
|  | 20       | 1              | ┢            | -  | -              | ├  |  | -  | ┝╌           | $\vdash$        | <del> </del>                                   | 70         | -            |             |                        |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 120      | H  | $\dashv$ | $\dashv$ | -        |          | $\vdash$  |          |          | $\dashv$ |
|  | 21       | 1              | ┢            |  |                | ┢  |  | <u> </u>   | $\vdash$     | $\vdash$        | <b></b>  | 71         |              |             |                        |          | -         |            |          |           | $\dashv$ |          | 121      |  |          | -        | -        | $\dashv$ |           | -        | -        |          |
|  | 22       | 1              | ┢            | -  | -              | <del>                                     </del> |  |  | -            | H               | <b> </b>                                       | 72         | ├            |             | $\vdash$               |          |           |            |          |           |          | _        | 122      |  |          |          |          |          |           |          |          |          |
|  | 23       | 1              | -            | ├  | $\vdash$       | ┢  | ┢  |  | $\vdash$     | $\vdash$        | -  | 73         | -            | $\vdash$    | $\vdash$               |          | -         |            | $\dashv$ |           |          |          | 123      |  |          |          |          |          |           |          |          |          |
|  | 24       | Ì              | -            |  | -              |  |  | <del>                                     </del> | -            | $\vdash$        | -  | 74         | -            | $\vdash$    | $\vdash$               |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | $\vdash$ | 123      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | _        | $\vdash$  | $\dashv$ | $\dashv$ | $\dashv$ |
|  | 25       | 1              | -            |  |                | -  |  | <del>                                     </del> | -            | $\vdash$        | $\vdash$                                       | 75         | ⊢            |             | $\vdash$               |          |           | $\dashv$   | $\dashv$ | $\dashv$  | $\dashv$ | $\vdash$ | 125      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\dashv$  |          | $\dashv$ | _        |
|  | 26       | 1              | -            |  | -              | -  |  | <u> </u>   |              | $\vdash$        | $\vdash$                                       | 76         |              |             |                        |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 126      | H  | +        | $\dashv$ | -        |          |           |          |          | -        |
|  | 27       | 1              | ⊢            | $\vdash$   | H              | ├  | -  |  |              | $\vdash$        |  | 77         | -            |             |                        |          |           |            |          |           | $\dashv$ | -        | 127      | <del>                                     </del> | -+       |          |          |          | -         |          |          |          |
|  | 28       | ۲              | ┢            | $\vdash$   | <del> </del>   | $\vdash$   | -  |  |              |                 |  | 78         | ├            | -           | -                      |          | -         |            |          |           | $\dashv$ | -        | 128      |  |          |          |          |          | $\dashv$  |          |          | $\dashv$ |
|  | 29       | ├              |              | -  | ├              | ┝  | ┝  |  |              | Н               | -  | 79         |              | H           | $\vdash$               |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 129      | Н  | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$  | -        | -        | $\dashv$ |
| -  | 30       | -              | ├            | -  | -              | $\vdash$   | -  |  |              | $\vdash$        |  | 80         | <u> </u>     |             |                        |          |           | $\dashv$   | $\dashv$ |           | $\dashv$ | -        | 130      | $\vdash$   | $\dashv$ | $\dashv$ |          |          | $\vdash$  |          | $\dashv$ |          |
|  | 31       | -              | ├            | $\vdash$   | $\vdash$       | ⊢  | ⊢  | -  |              | $\vdash$        | -  | 81         | -            |             | $\vdash$               |          |           | $\dashv$   | -        |           |          | $\vdash$ | 131      | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | -         |          | $\dashv$ | -        |
|  | 32       | -              | ┢            | -  | _              | -  | ├  | <del> </del>                                     |              |                 |  | 82         | ├            | -           |                        |          |           | -          |          |           |          | -        | 132      |  |          | -        |          | -        |           |          |          |          |
|  | 33       | -              | -            |  | -              | -  | -  | ├  | -            | $\vdash$        |  |            |              |             |                        |          |           |            | $\dashv$ | -         |          | -        | 133      |  |          |          |          |          |           |          |          |          |
|  | 34       | $\vdash$       | -            | $\vdash$   | $\vdash$       | 1  | 1  | -  |              | Н               | $\vdash$                                       | 83<br>84   | <del> </del> |             | $\vdash \vdash \vdash$ | $\vdash$ | -         |            |          | -         |          | -        | 134      | $\vdash$   |          |          |          |          |           |          |          |          |
|  | 35       | -              | <del> </del> | -  |                |  | -  | ╁  | ├            | Н               | -  | 85         | $\vdash$     |             | $\vdash$               | $\vdash$ | $\vdash$  | $\dashv$   | -        |           | $\dashv$ | -        | 135      | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ | $\dashv$ | -        | $\vdash$  | -        | $\dashv$ | -        |
|  | 36       | -              | <del> </del> |  |                |  | <del> </del>                                     | ╁  | ├            | $\vdash$        | -  | 86         | ├            | H           | $\vdash$               | $\dashv$ | $\vdash$  | $\dashv$   | -        |           | $\dashv$ | -        | 136      | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ |          | -        | $\vdash$  | -        | $\dashv$ |          |
| <u> </u>   | 37       | <del>  -</del> |              |  | -              |  |  | ├  | -            | $\vdash$        | -  | 87         |              | $\vdash$    | $\vdash$               | $\vdash$ | -         | -          | $\dashv$ |           | $\dashv$ | -        | 137      | $\vdash$   | -        | $\dashv$ |          |          |           |          |          | _        |
|  | 38       |                | -            |  | ⊢              | -  | $\vdash$   | -  |              | $\vdash$        | -  | 88         | ├            |             | $\vdash$               | -        | -         | $\dashv$   | -        |           |          | -        | 138      | $\vdash \vdash$                                  | $\dashv$ |          | -        | -        | -         | -        |          |          |
|  | 39       | $\vdash$       | $\vdash$     | $\vdash$   | ⊢              | 1  | ┢  | ├  | <del> </del> | $\vdash \vdash$ | -  | 89         | ├            | -           | $\vdash \vdash$        | $\vdash$ |           |            | $\dashv$ |           |          | <u> </u> | 138      | $\vdash$   | $\dashv$ | $\dashv$ | -        | _        | -         |          |          |          |
| -  | 40       | _              | $\vdash$     | <del>                                     </del> | <del>  -</del> | -  | ⊢-   | <del> </del>                                     | ├            |                 |  | 69         | <del> </del> | <b> -</b> - |                        | $\vdash$ | $\vdash$  |            | $\dashv$ |           |          | $\vdash$ | 140      | $\mid - \mid$                                    | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\vdash$  |          |          |          |
| <u> </u>   |          |                |              |  | -              | -  | -  | ⊨  | $\vdash$     | Н               | <u> </u>                                       | 90         | $\vdash$     | H           | $\vdash\vdash$         | $\vdash$ | $\vdash$  | -          | _        |           | $\dashv$ | -        |          | $\vdash \vdash$                                  |          | -        |          | -        |           |          |          | $\dashv$ |
|  | 41       |                |              | -  | $\vdash$       | -  | <u> </u>   | ₩  | -            | Н               | -  | 91         | <u> </u>     | L           | Н                      |          | Ш         | _          |          |           |          |          | 141      | $\vdash \vdash$                                  |          | $\dashv$ |          |          |           |          |          | $\dashv$ |
|  | 42       |                | ├—           |  |                | ├-   |  | ├-   | <u> </u>     | Н               |  | 92         | <u> </u>     | <u> </u>    | Н                      |          |           | _          |          | $\Box$    |          |          | 142      |  |          |          |          |          |           |          |          | $\dashv$ |
|  | 43       | <u> </u>       | $\vdash$     | $\vdash$   | $\vdash$       | 1  | <u> </u>   | <u> </u>   | <u> </u>     | Н               | -  | 93         | <del> </del> |             | Ш                      | $\vdash$ | Щ         | _          |          |           |          |          | 143      | $\vdash \vdash$                                  | $\dashv$ | _        | _        | _        | $\square$ |          | _        | $\dashv$ |
| <u></u>  | 44       |                | <del> </del> |  | <del> </del>   | <del> </del>                                     | <b>⊢</b> –                                       |  | ļ            | Н               |  | 94         | <u> </u>     |             | H                      |          |           |            |          |           |          |          | 144      |  | $\dashv$ |          |          | _        | -         |          | _        |          |
|  | 45       | <u> </u>       | ├-           | <u> </u>   | <del> </del>   | <del> </del>                                     | <del> </del>                                     |  | <u> </u>     | Н               |  | 95         | ₩            |             | Щ                      | -        | Щ         |            |          |           |          |          | 145      | $\vdash \vdash$                                  | $\dashv$ |          |          | _        | -         |          |          |          |
|  | 46       | <del> </del>   | <del> </del> | <u> </u>   | <u> </u>       | <u> </u>   | ├  | ├  | ļ            | Щ               |  | 96         | $\vdash$     |             | Щ                      |          | $\square$ | _          | $\Box$   |           | _        |          | 146      |  |          |          | _        |          | <b> </b>  |          | _        | $\dashv$ |
|  | 47       | <u> </u>       |              | <u> </u>   |                | <del> </del>                                     | ļ  | ļ  | ├            | $\sqcup$        |  | 97         | <u> </u>     |             | Щ                      |          | Щ         | _          |          |           | _        | -        | 147      | $\sqcup$   | -        |          | _        |          |           |          |          | 4        |
| <u> </u>   | 48       | _              | ╙            | <u> </u>   | <u> </u>       | <u> </u>   | -  | ـــ  | <u> </u>     |                 |  | 98         | ┡            | <u> </u>    | Ш                      |          | Щ         | $\dashv$   |          |           | _        | <u> </u> | 148      | $\sqcup$   | _        | _        |          |          | $\vdash$  | _        |          |          |
|  | 49       | <u> </u>       | <u> </u>     | <b> </b> -                                       |                | <b> </b> -                                       | <u> </u>   |  | <u> </u>     | Ш               |  | 99         | -            | <u> </u>    | Ш                      |          | Ш         |            | $\perp$  | $\square$ |          |          | 149      | $\vdash \downarrow$                              | _        |          | _        |          | Ш         | $\Box$   |          | _        |
| L  | 50       | L              | <u></u>      | l  |                | l  |  | 1  | L _          |                 |  | 100        | 1            | j           | 1                      |          |           |            |          |           |          | 1        | 150      |  | 1        |          |          |          |           |          |          |          |